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DATE: Wednesday, November 17, 2004

Hide?	Set Name	Query	Hit Count
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ		
☐	L14	L13 not l11	31
☐	L13	l7 not l8	34
☐	L12	L11 not l8	3
☐	L11	l9 or l10	12
☐	L10	l7 and burn	6
☐	L9	l7 and trauma	6
☐	L8	L7 and wound	12
☐	L7	l4 and L6	46
☐	L6	antisense or anti-sense	56818
☐	L5	antisense or anti-sense	56818
☐	L4	l2 or L3	131
☐	L3	connexin-43	34
☐	L2	connexin43	99
☐	L1	connexin	510

END OF SEARCH HISTORY

WEST Search History

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DATE: Wednesday, November 17, 2004

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	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ		
☐	L14	L13 not l11	31
☐	L13	l7 not l8	34
☐	L12	L11 not l8	3
☐	L11	l9 or l10	12
☐	L10	l7 and burn	6
☐	L9	l7 and trauma	6
☐	L8	L7 and wound	12
☐	L7	l4 and L6	46
☐	L6	antisense or anti-sense	56818
☐	L5	antisense or anti-sense	56818
☐	L4	l2 or L3	131
☐	L3	connexin-43	34
☐	L2	connexin43	99
☐	L1	connexin	510

END OF SEARCH HISTORY

McGarry, Sean

To: STIC-Biotech/ChemLib
Subject: SEQ SEARCH 09/890,363

Sean McGarry
AU 1635
REM 02D19 Office
REM 2C18 Mailbox
X20761

09/890,363

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NEWS	4	AUG 02	IFIPAT/IFIUDB/IFICDB reloaded with new search and display fields
NEWS	5	AUG 02	CAplus and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS	6	AUG 02	The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
NEWS	7	AUG 27	BIOCOMMERCE: Changes and enhancements to content coverage
NEWS	8	AUG 27	BIOTECHABS/BIOTECHDS: Two new display fields added for legal status data from INPADOC
NEWS	9	SEP 01	INPADOC: New family current-awareness alert (SDI) available
NEWS	10	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	11	SEP 01	New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS	12	SEP 27	STANDARDS will no longer be available on STN
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NEWS	14	OCT 28	KOREAPAT now available on STN

NEWS EXPRESS	OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
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FILE 'HOME' ENTERED AT 10:07:41 ON 17 NOV 2004

=> file medline caplus embase biotechno biosis scisearch

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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FILE 'BIOSIS' ENTERED AT 10:08:21 ON 17 NOV 2004
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FILE 'SCISEARCH' ENTERED AT 10:08:21 ON 17 NOV 2004
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=> s connexin
L1        19141 CONNEXIN

=> s connexin43
L2         5439 CONNEXIN43

=> s connexin-43
L3         8698 CONNEXIN-43

=> s antisense or anti-sense
L4       143567 ANTISENSE OR ANTI-SENSE

=> s ribozyme
L5        21179 RIBOZYME

=> s sirna or rnai
L6        12598 SIRNA OR RNAI

=> s l2 or l3
L7        11804 L2 OR L3

=> s l7 and l4
L8          305 L7 AND L4

=> l7l7 and l5
L7L7 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l7 and l5
L9            2 L7 AND L5

=>

=> s l7 and l6
L10           4 L7 AND L6

=> s l8 and wound
L11           7 L8 AND WOUND

=> dup rem l11
PROCESSING COMPLETED FOR L11
L12           3 DUP REM L11 (4 DUPLICATES REMOVED)
```

=> d 1-3 ab

L12 ANSWER 1 OF 3 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
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L12 ANSWER 2 OF 3 MEDLINE on STN DUPLICATE 1
AB The repair of tissue damage is a key survival process in all organisms and involves the coordinated activation of several cell types. Cell-cell communication is clearly fundamental to this process, and a great deal is known about extracellular communication within the **wound** site via cytokines. Here we show that direct cell-cell communication through **connexin 43** (Cx43) gap junction channels also plays a major role in the **wound** healing process. In two different **wound** healing models, incisional and excisional skin lesions, we show that a single topical application of Cx43 **antisense** gel brings about a transient downregulation of Cx43 protein levels, and this results in a dramatic increase in the rate of **wound** closure. Cx43 knockdown reduces inflammation, seen both macroscopically, as a reduction in swelling, redness, and **wound** gape, and microscopically, as a significant decrease in neutrophil numbers in the tissue around the **wound**. One long-term consequence of the improved rate of healing is a significant reduction in the extent of granulation tissue deposition and the subsequent formation of a smaller, less distorted, scar. This approach is likely to have widespread therapeutic applications in other injured tissues and opens up new avenues of research into improving the **wound** healing process.

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
AB A therapeutic and/or cosmetic formulation comprising at least one **anti-sense** polynucleotide to a connexin protein together with a pharmaceutically acceptable carrier or vehicle is useful in site-specific down-regulation of connexin protein expression, particularly in reduction of neuronal cell death, **wound** healing, reduction of inflammation, decrease of scar formation and skin rejuvenation and thickening.

=> d 1-3

L12 ANSWER 1 OF 3 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
AN 2004221775 EMBASE
TI Connecting wounds with connexins.
AU Hodgins M.B.
CS M.B. Hodgins, Squamous Cell Biol. and Dermatology, Div. Cancer Sci. and Molec. Pathol., University of Glasgow, Glasgow, United Kingdom
SO Journal of Investigative Dermatology, (2004) 122/5 (ix-x).
Refs: 12
ISSN: 0022-202X CODEN: JIDEAE
CY United States
DT Journal; Editorial
FS 005 General Pathology and Pathological Anatomy
013 Dermatology and Venereology
029 Clinical Biochemistry
LA English

L12 ANSWER 2 OF 3 MEDLINE on STN DUPLICATE 1
AN 2003460481 MEDLINE
DN PubMed ID: 14521835
TI Targeting **connexin43** expression accelerates the rate of **wound** repair.
AU Qiu Cindy; Coutinho Petula; Frank Stefanie; Franke Susanne; Law Lee-yong; Martin Paul; Green Colin R; Becker David L
CS Department of Anatomy and Developmental Biology, University College

London, Gower St., WC1E 6BT London, UK.
SO Current biology : CB, (2003 Sep 30) 13 (19) 1697-703.
Journal code: 9107782. ISSN: 0960-9822.
CY England: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200406
ED Entered STN: 20031003
Last Updated on STN: 20040606
Entered Medline: 20040604

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:535022 CAPLUS
DN 133:155431
TI Formulations comprising **antisense** nucleotides to connexins
IN Becker, David Laurence; Green, Colin Richard
PA University College London, UK
SO PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000044409	A1	20000803	WO 2000-GB238	20000127
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	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2361251	AA	20000803	CA 2000-2361251	20000127
	EP 1146908	A1	20011024	EP 2000-901236	20000127
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
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	NZ 513154	A	20040130	NZ 2000-513154	20000127
	AU 776512	B2	20040909	AU 2000-21193	20000127
PRAI	NZ 1999-333928	A	19990127		
	NZ 1999-500190	A	19991007		
	WO 2000-GB238	W	20000127		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
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FILE 'MEDLINE, CAPLUS, EMBASE, BIOTECHNO, BIOSIS, SCISEARCH' ENTERED AT 10:08:21 ON 17 NOV 2004

L1 19141 S CONNEXIN
L2 5439 S CONNEXIN43
L3 8698 S CONNEXIN-43
L4 143567 S ANTISENSE OR ANTI-SENSE
L5 21179 S RIBOZYME
L6 12598 S SIRNA OR RNAI
L7 11804 S L2 OR L3
L8 305 S L7 AND L4
L9 2 S L7 AND L5

L10 4 S L7 AND L6
L11 7 S L8 AND WOUND
L12 3 DUP REM L11 (4 DUPLICATES REMOVED)

=> d l9 1-2

L9 ANSWER 1 OF 2 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
AN 1998367597 EMBASE
TI Workshop on cardiovascular specific gene expression; Maastricht, The Netherlands, 12-14 December 1997.
AU Doevendans P.A.; Reneman R.S.; Van Bilsen M.
SO Pflugers Archiv European Journal of Physiology, (1998) 436/6 (1016-1020). ISSN: 0031-6768 CODEN: PFLABK
CY Germany
DT Journal; Conference Article
FS 002 Physiology
005 General Pathology and Pathological Anatomy
018 Cardiovascular Diseases and Cardiovascular Surgery
LA English

L9 ANSWER 2 OF 2 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
AN 1998:28496752 BIOTECHNO
TI Workshop on cardiovascular specific gene expression; Maastricht, The Netherlands, 12-14 December 1997
AU Doevendans P.A.; Reneman R.S.; Van Bilsen M.
SO Pflugers Archiv European Journal of Physiology, (1998), 436/6 (1016-1020) CODEN: PFLABK ISSN: 0031-6768
DT Journal; Conference Article
CY Germany, Federal Republic of
LA English

=> d ab 1 l9

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=> dup rem l10
PROCESSING COMPLETED FOR L10
L13 1 DUP REM L10 (3 DUPLICATES REMOVED)

=> d ab

L13 ANSWER 1 OF 1 MEDLINE on STN DUPLICATE 1
AB BACKGROUND: Connexins form gap junctions that mediate the transfer of ions, metabolites, and second messengers between contacting cells. Many aspects of connexin function, for example cellular transport, plaque assembly and stability, and channel conductivity, are finely tuned and likely involve proteins that bind to connexins' cytoplasmic domains. However, little is known about such regulatory proteins. To identify novel proteins that interact with the COOH-terminal domain of **Connexin-43** (Cx43), the most widely expressed connexin family member, we applied a proteomics approach to screen fractions of mouse tissue homogenates for binding partners. RESULTS: Drebrin was recovered as a binding partner of the Cx43 COOH-terminal domain from mouse brain homogenate. Drebrin had previously been described as an actin binding protein that diminishes in brains during Alzheimer's disease. The novel Drebrin-Cx43 interaction identified by proteomics was confirmed by colocalization of endogenous proteins in astrocytes and Vero cells, coimmunoprecipitation, electron microscopy, electrophysiology, coexpression of both proteins with fluorescent tags, and live-cell FRET analysis. Depletion of Drebrin in cells with **siRNA** results in

impaired cell-cell coupling, internalization of gap junctions, and targeting of Cx43 to a degradative pathway. CONCLUSIONS: We conclude that Drebrin is required for maintaining Cx43-containing gap junctions in their functional state at the plasma membrane. It is thus possible that Drebrin may interact with gap junctions in zones of cell-cell contacts in a regulated fashion in response to extracellular signals. The rearrangement or disruption of interactions between connexins and the Drebrin-containing submembrane cytoskeleton directs connexins to degradative cellular pathways.

=> d 1

L13 ANSWER 1 OF 1 MEDLINE on STN DUPLICATE 1
AN 2004188732 MEDLINE
DN PubMed ID: 15084279
TI Drebrin is a novel **connexin-43** binding partner that links gap junctions to the submembrane cytoskeleton.
AU Butkevich Eugenia; Hulsmann Swen; Wenzel Dirk; Shirao Tomoaki; Duden Rainer; Majoul Irina
CS Department of Neurophysiology, University of Gottingen, Gottingen, Germany.
SO Current biology : CB, (2004 Apr 20) 14 (8) 650-8.
Journal code: 9107782. ISSN: 0960-9822.
CY England: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200406
ED Entered STN: 20040416
Last Updated on STN: 20040609
Entered Medline: 20040608

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 NEWS  4  AUG 02   IFIPAT/IFIUDB/IFICDB reloaded with new search and display
                   fields
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                   Patent Office Classifications
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                   STN Express with Discover!
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 NEWS 13  SEP 27   SWETSCAN will no longer be available on STN
 NEWS 14  OCT 28   KOREAPAT now available on STN

 NEWS EXPRESS  OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
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=> file medline caplus embase biotechno biosis scisearch
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                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21
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=> s connexin
L1        19141 CONNEXIN

=> s connexin43
L2         5439 CONNEXIN43

=> s connexin-43
L3         8698 CONNEXIN-43

=> s antisense or anti-sense
L4       143567 ANTISENSE OR ANTI-SENSE

=> s ribozyme
L5        21179 RIBOZYME

=> s sirna or rnai
L6        12598 SIRNA OR RNAI

=> s l2 or l3
L7        11804 L2 OR L3

=> s l7 and l4
L8          305 L7 AND L4

=> l717 and l5
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The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l7 and l5
L9            2 L7 AND L5

=>

=> s l7 and l6
L10           4 L7 AND L6

=> s l8 and wound
L11           7 L8 AND WOUND

=> dup rem l11
PROCESSING COMPLETED FOR L11
L12           3 DUP REM L11 (4 DUPLICATES REMOVED)
```

=> d 1-3 ab

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L12 ANSWER 2 OF 3 MEDLINE on STN DUPLICATE 1
AB The repair of tissue damage is a key survival process in all organisms and involves the coordinated activation of several cell types. Cell-cell communication is clearly fundamental to this process, and a great deal is known about extracellular communication within the **wound** site via cytokines. Here we show that direct cell-cell communication through **connexin 43** (Cx43) gap junction channels also plays a major role in the **wound** healing process. In two different **wound** healing models, incisional and excisional skin lesions, we show that a single topical application of Cx43 **antisense** gel brings about a transient downregulation of Cx43 protein levels, and this results in a dramatic increase in the rate of **wound** closure. Cx43 knockdown reduces inflammation, seen both macroscopically, as a reduction in swelling, redness, and **wound** gape, and microscopically, as a significant decrease in neutrophil numbers in the tissue around the **wound**. One long-term consequence of the improved rate of healing is a significant reduction in the extent of granulation tissue deposition and the subsequent formation of a smaller, less distorted, scar. This approach is likely to have widespread therapeutic applications in other injured tissues and opens up new avenues of research into improving the **wound** healing process.

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
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=> d 1-3

L12 ANSWER 1 OF 3 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN
AN 2004221775 EMBASE
TI Connecting wounds with connexins.
AU Hodgins M.B.
CS M.B. Hodgins, Squamous Cell Biol. and Dermatology, Div. Cancer Sci. and Molec. Pathol., University of Glasgow, Glasgow, United Kingdom
SO Journal of Investigative Dermatology, (2004) 122/5 (ix-x).
Refs: 12
ISSN: 0022-202X CODEN: JIDEAE
CY United States
DT Journal; Editorial
FS 005 General Pathology and Pathological Anatomy
013 Dermatology and Venereology
029 Clinical Biochemistry
LA English

L12 ANSWER 2 OF 3 MEDLINE on STN DUPLICATE 1
AN 2003460481 MEDLINE
DN PubMed ID: 14521835
TI Targeting **connexin43** expression accelerates the rate of **wound** repair.
AU Qiu Cindy; Coutinho Petula; Frank Stefanie; Franke Susanne; Law Lee-yong; Martin Paul; Green Colin R; Becker David L
CS Department of Anatomy and Developmental Biology, University College

London, Gower St., WC1E 6BT London, UK.
SO Current biology : CB, (2003 Sep 30) 13 (19) 1697-703.
Journal code: 9107782. ISSN: 0960-9822.
CY England: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200406
ED Entered STN: 20031003
Last Updated on STN: 20040606
Entered Medline: 20040604

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:535022 CAPLUS
DN 133:155431
TI Formulations comprising **antisense** nucleotides to connexins
IN Becker, David Laurence; Green, Colin Richard
PA University College London, UK
SO PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000044409	A1	20000803	WO 2000-GB238	20000127
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	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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	AU 776512	B2	20040909	AU 2000-21193	20000127
PRAI	NZ 1999-333928	A	19990127		
	NZ 1999-500190	A	19991007		
	WO 2000-GB238	W	20000127		

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